

Phase I RFI/RI Report
Walnut Creek Priority Drainage, Operable Unit No. 6 Comments
CAMD/EMT

DOE
Comments
#2

Page 1-5, para 2 The 6,550 and the 6,150 acreages should be checked with Steve Schiesswohl
DOE, RFFO has transferred some of the property to the Wind Site

Page 1-6, para 2, lines 9, 10 and 11 This discussion is confusing Is there a typo? 167 2 and
167 3 in OU7, 167 1 and 167 2 in OU7, or just 167 2 in OU7? Was 167 3 originally in OU6,
removed to OU7, and then put back in OU6 and no longer in OU7? Why were these originally
separated from OU6? What historical knowledge caused 167 3 (1?) to be retained?

Page 1-8, para 2 No The two ditches come on site as separate ditches and go to a diversion box
After that they are either Upper Church or McKay bypass canal

Pages 1-8 through 1-11 This discussion jumps around It would be good to go through sequentially
on the A and B Ponds (i e Historical through present or present through historical)

Page 1-9, para 1, sentence 2 The ponds are not maintained at 10 percent capacity They are filled,
sampled, and discharged

Page 1-9, para 3, lines 5 - 10 Spray evaporation is no longer performed on the Site A-1 water is
disposed of by natural evaporation or transferred to A-2 A-2 water is disposed of by natural
evaporation or when necessary discharged to A-3 after sample

Page 1-10 Should the B-1 hot spot be mentioned in this discussion?

Page 1-10, Para 4, sentence 1 and 2 This should be used as lead sentences for paragraphs 1 and 2
on page 1-11

Page 1-11, para 1 Some of this information has already been said in the above discussion

Page 1-11, para 2 The discussion of the release of Ponds B-5 and A-4 should be presented here

Page 1-11, para 3, sentence 6 This sentence is a bit misleading as this pond is a flow-through
pond

Page 1-11, para 4, sentence 4 The temporary trailers and the PA fence are "on or near" this IHSS,
but neither show up on the IHSS map

Page 1-12, para 4, sentence 4 Should be broken into 2 sentences Also add 1970 behind
September

Page 1-13, para 2, sentence 1 The Soil Dump Area is located "mostly" within the buffer zone

Page 1-13, para 3, line 5 100 feet east if Building is not near the Old Out Fall Area. Do you mean
west?

Page 1-13, para 3, line 8 Contamination is unknown? Was no sampling performed?

Page 1-14, para 1, lines 1 and 4 The PA and the security area need to be defined The Triangle
Area is located "mostly within the security area

Pages 1-14 through 1-16 This needs to be discussed sequentially The first sentence of para 2 is
present, the rest is all history

18 19 20 21 22 23 24 25 26 27 28 29 30

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Page 1-14, para 2, line 16 How does high wind damage drums?

Page 1-15, para 1 How many drums were found to be leaking in 71 and 73?

Page 1-15, para 1 Why were leaking drums discovered in 71 and 73 if they were transferred in 71?

Page 1-15, para 3, sentence 1 When? 1971?

Page 1-15 para 3, sentence 6 Incomplete sentence "Eventual" vs "eventually"?

Page 1-15, para 4 What about the three times the leaking drums discovered is 1973? Should discuss

Page 1-17, para 4 See comment from page 1-6

Page 1-18, para 1 See comment from page 1-6

Page 1-18, para 2, line 6 You discuss "the existing landfill pond", but it is labeled "the Present Landfill Pond" on the map

Page 1-24, bullet 5 Add "Provide data for future CMS/FS or NFA "

Page 1-29 Antimony is also a COC?

Figures 1 3-4 through 1 3-7 What is the purpose of these blown up maps? They are not much better than the small scale maps Figure 1 3-7 should show the temporary trailers

Figure 1 3-8 The area does not correspond with the new OU boundary shown on Figure 1 3-7

Page 2-1, para 1, sentence 2 Hard to follow Use bullets or numbers to break out the sentence into distinct thoughts

Page 2-6, para 5, line 3 Stated "drilled through fill material into undisturbed soil of bedrock." Hopefully they were above groundwater and no DNAPLs present to help deeper migration

Page 2-6, para 5, sentence 3 Stated "VOC continuous " should be changed to "Continuous "

Page 2-15, para 3, sentence 4 Start a new paragraph here Identification of seep locations should have been performed later in the spring

Page 2-19, para 2, line 3 and Figures 2 2-2 through 2 2-12 There has been no previous discussion of Figure 2 2-2 (on page 2-26) when you mention Figures 2 2-3 through 2 2-12 (i.e. Figure 2 2-2 is out of order) Seems like you could put more than one or two ponds on one page and decrease the number of maps needed Figure 2 2-8 is a good example

Page 2-22, para 1, line 7 Do you mean "east" rather than "northeast"?

Page 2-23, para 2 Usually actual dates are presented on aerial photographs These should be stated

Page 2-23, para 4, line 9 Why was the seventh boring drilled so far away?

Page 2-24, para 5 So now there are 3 different boundaries of IHSS 143 1) historical, 2) HRR and 3) post Work Plan You need to put the "HRR IHSS Boundary" on the map legend, not just call it "IHSS Boundary"

Page 2-28, para 3, line 1 IHSS 165 is also outside the PA security fence

Page 2-28, para 5, line 1 Usually actual dates are presented on aerial photographs These should be stated

Page 2-32, para 3, line 2 The trenches are located in the northwestern part of OU6

Page 2-33, para 1-3 There is not a map showing the EM survey grids

Page 2-35, para 2, line 7 Why was the Pond Spray Field moved to OU7 ?

Page 2-35, para 4, line 4 Usually actual dates are presented on aerial photographs These should be stated

Page 2-35, para 4 Again, there are 3 different boundaries of IHSS 167 3 1) historical, 2) HRR and 3) new post Work Plan You need to put the "HRR IHSS Boundary" on the map legend, not just call it "IHSS Boundary" Are the historical and post- Work Plan the same?

Page 2-36, para 2-4 Much of this information is repeated and redundant within this section It is also poorly organized All Stage 3 information should be in consistent order (i e Surface Soil, Soil Borings, Soil Profile Pit, Sediment and Surface Water Sampling)

Page 2-37, para 4, sentence 1 This sentence is not clear Should read "one monitor well will be installed downgradient of both the North and South Spray Fields"

Page 2-37, para 5, line 8 Start new paragraph here 76792 is "north" not "south" of IHSS 167 3

Page 2-39, Stage 3 All Stage 3 information should be in consistent order (i e Surface Soil, Soil Borings, Soil Profile Pit, Sediment and Surface Water Sampling)

Page 2-39, para 6, line 1 Should be "from" not "form"

Table 2 1-3 through 2 1-5 Extra blank pages

Figure 2 1-4 Are they designed with the water level below or above the top of the screen?

Figures 2 2-3 through 2 2-12 These should have consistent colors Figure 2 2-3 and 2 2-11 need to have the effluent labeled in purple

Figure 2 2-14 The monitor well legend should be labeled in green to be consistent with the other maps

Figure 2 2-20 The monitor well legend should be a solid circle rather than a square to be consistent with the other maps

Figure 2 2-21 The monitor well legend should be consistent (i e green and solid circle)

Section 3 Pages 12, 14, 15, 17, 18, 20, 22, 24, 26, 35 and 62 are missing Also not on draft paper like Sections 1 and 2

Page 3-7, line 1 IHSS 141 is not in the PA and 165 is not all within the PA

Page 3-13, line 1 The Arapahoe is not exposed in the valleys, only on the ridge top and side slopes

Page 3-18, Landslides Landslides are a subset of the colluvial material

Page 3-24 Discuss Arapahoe before the Laramie-Fox Hills Aquifer The Arapahoe is the first aquifer encountered

Page 3-28, para 28, lines 5-6 Should read "The maximum observed saturated thickness of RFA in OU6, "

Page 3-38, para 1, line 1 Should read "proximity of the Coal Creek drainage to the north and west, and the Woman Creek "

Plates 3 5-2 and 3 5-3 The colors chosen for the Arapahoe, Laramie and Claystone/Siltstone should be consistent across the maps There is a long outcrop of undifferentiated Lclst/sltst on Plate 3 5-2 northwest of Pond B-5 that is mapped as colluvium on the March 1995 map Due to the different colors on the two plates, it appears as if it is mapped as Laramie on Plate 3 5-3 The legend should say "Top of Bedrock Contour and Elevation" not just "Bedrock Contour and Elevation"

Plate 3 5-3 There is a large outcrop of Arapahoe Formation just north of A-3 on the "Geologic Units at Rocky Flats Environmental Technology Site" dated March 15, 1995 This does not show up at all on this plate dated April 1995 They were published at approximately the same time and should be fairly consistent There are also outcrops of the Laramie Formation north of Ponds A-4 and B-5 on the March map that show up as artificial fill on the April map

Section 4, Table of Contents Groundwater Section 4 6 is on page 4-47 not 4-41 Whole TOC needs to be checked carefully

Page 4-2, line 1 Examples like "A more through history is presented in Section 1 3 2 of this report" really hurts the flow of this report These statements are constantly interrupting the thoughts This report would be a lot smaller if this was not done in every subsection Maybe mention up front here and not put it throughout the whole section

Page 4-2, para 3, line 4 "Discharges" should be changed to "effluent"

Page 4-3, line 1 Pond A-4 water is not routinely treated by GAC The capability exists, but it has rarely if ever been used

Page 4-3, para 2, line 7 Change "shoed" to "showed"

Page 4-4, para 2, last sentence This sentence should read "When discharge from the pond into Walnut Creek is occurring, the effluent is sampled on a daily basis"

Page 4-6, para 2 Why two Trench Cs? Why not Trench D?

Page 4-6, para 4, line 2 "During" not "Curing"

Page 4-6, para 4, line 5 "location" not "located"

Page 4-6, para 4, line 6 Same confusion as in comment Page 1-6, para 2, lines 9, 10 and 11 Should this be 167 2?

Page 4-6, para 4, line 7 "location" not "located"

Page 4-9, para 4 This problem occurred during the French Drain Geotechnical Study of OU 1 Not sure how they resolved this problem To my recollection, they thought it may have been from a dust suppressant they were using while drilling Should ask "old-timers" what was concluded then

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Page 4-15, para 3, line 2 “are” not “is”

Page 4-16, para 4, line 2 See comment on Page 4-2, line 1

Page 4-17, last line See comment on Page 4-2, line 1

Page 4-19, lines 3-5 See comment on Page 4-2, line 1

Page 4-20, para. 3, line 3. See comment on Page 4-2, line 1. Lots of these through this section

Page 4-47, para 2, last sentence Why? No contamination? Not characterized?

Page 4-48, para 2, lines 1-2 “Shown with laboratory qualifiers and validation codes (Figure 4.4-1)”
is written on each map Why does it need to be rewritten here?

Page 4-69, para 2, line 1-2 “Shown with laboratory qualifiers and validation codes (Figure 4 4-1)”
is written on each map Why does it need to be rewritten here?